

ENVIRONMENTAL PROTECTION AGENCY (EPA Region 9)

California Air Resource Board

Project Title: Assist the City of Tijuana set up a 50 sensor network

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Funding Amount: FY 20: \$18,000

Completion Date: September 30, 2021

Project Description:

The City of Tijuana has formally requested support from CARB to develop a low cost sensor network for education and awareness, as well as to build a school flag program similar to what has been accomplished in the City of Mexicali. CARB plans to support the City of Tijuana with a long term loan 50 low cost sensors and training for deployment of the sensors. The sensor network will lead to increased education and awareness to the public about air quality in their region and the precautions they should take to protect themselves when air quality levels are unhealthy. Funding will be used for the purchase of 50 Purple Air sensors at a cost of approximately \$11,000 as well as CARB travel and time for training the City of Tijuana and ongoing support.

Program Priorities:

The proposed project focuses on the following priorities:

1. **Purchase of 50 Purple Air Sensors:** CARB staff will order 50 Purple Air sensors at an approximate cost of \$11,000 when the 2020-2021 fiscal year begins in July 2021.
2. **Train the City of Tijuana of Purple Air Sensors and hand over:** CARB staff will travel to the border and train the City of Tijuana staff as well as local CBOs on Purple Air deployment including: siting, power and wifi requirements, data collection and reporting as well as an introduction into developing a correction factor. After the

training CARB will hand over the 50 sensors to the City of Tijuana. It is the City of Tijuana's responsibility to legally import them into Mexico.

3. **Ongoing support of the network:** CARB staff will support the City of Tijuana with questions and troubleshooting of the sensors and the network as a whole.